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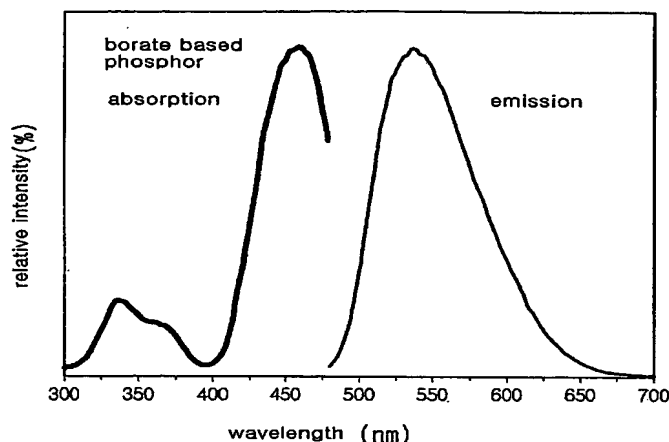
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(54) Title: **YELLOW EMITTING PHOSPHOR AND WHITE SEMICONDUCTOR LIGHT EMITTING DEVICE INCORPORATING THE SAME**



(57) Abstract: The present invention relates to a yellow phosphor represented by a general formula of  $A_{(1-y)}D_{5-x}E_xO_{12}:Ce_y$  (wherein: A is at least one element selected from the group consisting of Y, Lu, Sc, La, Gd and Sm; D is at least one element selected from the group consisting of Al, Ga and In; E is at least one element selected from the group consisting of B and Fe;  $0 \leq x < 0.5$ ; and  $0.0001 \leq y < 0.5$ ), and a white semiconductor light emitting device incorporating the same. The white semiconductor light emitting device comprises a semiconductor light emitting diode, and a phosphor coating layer. The phosphor coating layer comprises yellow phosphor and optionally zinc selenium-based red phosphor that absorb a portion of light emitted by the semiconductor light emitting diode and emits light of wavelength different from that of the absorbed light and a transparent resin. The white semiconductor light emitting device has excellent color rendering and experiences only extremely low degrees of deterioration in emission efficiency in a long period of service.



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